

Integration of the Unsteady Creep Equations
for Solids

77992
SOV/40-24-1-20/28

Theory of Creep, GTTI, 1949) then form the starting point. The time interval is divided into a number of small segments (not necessarily equal). The time derivatives are then replaced by finite increments at the points of subdivision, e.g., $\partial \sigma_x / \partial t$ $t = t_1 = \Delta \sigma_x / \Delta t$. For a strain rate and velocity component, the notations $\Delta \xi_x = \xi_x |_{t=t_1} \Delta t$ and $\Delta u_x = v_x |_{t=t_1} \Delta t$ are introduced. This leads to

a certain system of linear equations for determining the stress and strain increments (which is analogous to the problem of thermoelasticity), the solution of which is described. In particular, for an equilibrium stressed state (stress relaxation in a rod), the calculation process reduces to Euler's method. The authors note that a solution can be constructed if a suitable Green's function for the thermoelastic problem can be found. The authors also show how the process can be

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generalized to the case of plastic deformations.
There are 3 Soviet references.

SUBMITTED: May 18, 1959

Card 3/3

S/040/66, U24/02/22/032

AUTHOR: Rozenblyum, V. J. (Leningrad)

TITLE: On the Plasticity Condition for Thin Shells

PERIODICAL: Prikladnaya matematika i mehanika, 1960, Vol. 24, No. 2,
pp. 364-366

TEXT: The author uses extremum principles of the three-dimensional
rigidly-plastic continuum in order to obtain a very simple approxima-
tive plasticity condition in the case of an arbitrary thin-walled shell.
The condition includes the approximative conditions given in (Ref. 2, 3, 4)
as special cases.

There are 2 figures, and 11 references: 4 Soviet and 7 American.

SUBMITTED: June 24, 1959

(V)

107300 also 1413,

31638
S/207/61/000/006/014/025
A001/A101

AUTHOR: Rozenblyum, V. I. (Leningrad)

TITLE: Axial-symmetrical creep of cylindrical bodies at changing temperature along the axis

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1961,
123 - 127

TEXT: The author considers several cases of cylindrical bodies whose temperature varies along the axis and calculates the creep rate and distribution of stresses in these bodies. The cases solution of which are presented in the article are as follows: 1) long hollow circular cylinder uniformly loaded over the inner and outer surfaces and subjected to an axial force applied to its faces, 2) solid cylindrical rod subjected to tension by an axial force, 3) solid cylinder with free faces rotating around the z-axis with a constant angular velocity, 4) thin-walled cylinder, and 5) the same with no axial force applied. The solutions are obtained using the equation of equilibrium and equations of steady creep for non-uniformly heated bodies, considering the

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A001/A101

Axial-symmetrical creep of cylindrical bodies ...

temperature as a linear function of z-coordinate but independent of the radius.
The stress distribution for cases 2 and 5 are illustrated graphically. There
are 4 figures and 3 Soviet-bloc references.

SUBMITTED: July 29, 1961

L 23344-65 EWP(k)/EWT(m)/EWP(b)/T/EWA(d)/EWP(w)/EWP(t) Pf-4 RM/JD/HM
ACCESSION NR: AR4040333 5/0124/64/000/004/v039/v039

SOURCE: Ref. zh. Mekhanika, Abs. 4V249

AUTHOR: Rozenblyum, V. I.

TITLE: The effect of plastic deformation on period to failure in the presence of
creep

CITED SOURCE: Sb. Polzuchest' i dlitel'n. prochnost'. Novosibirsk, Sib. otd. AN
SSSR, 1963, 63-69

TOPIC TAGS: ductile fracture, thick walled tube, failure calculation, Hoff solu-
tion, linear creep, rod creep, rod failure

TRANSLATION: The author presents refinements to Hoff's method for evaluating the
period to ductile fracture of rods in the presence of creep. The stress level
usually increases gradually when the shape of a body subject to creep is distorted.
In reality, however, stresses can intensify only to the yield point (if hardening
is ignored). Expanding areas of plasticity appear with time and, at some point,
there ensues a pattern of "normal" plastic failure. In contrast to Hoff's formula,

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lation, this failure occurs at finite dimensions of a body. A solution was obtained for a rod strained by a constant force, hardening being ignored, and the author calculates the period to "ductile-plastic" failure. The correction to Hoff's solution can be significant in some cases. The author also discusses changes in the equations when hardening is considered, the expression obtained exhibiting a formal coincidence with a known condition for instability in plastic strain. The data obtained were compared with experimental results and it was demonstrated that calculated periods to fracture were closer to the test results than values obtained according to Hoff. Expressions describing rates of deformation were written for spatial distribution of stress, the rates of creep in this case comprising linear functions of stresses in the area of plasticity. The author discusses creep in a thick-walled cylindrical tube, stressed by internal pressure, at high levels of deformation. Expressions were evolved for periods to ductile fracture and to fractures in which the perforation in a tube is surrounded by a region of plasticity filled with ductile material. Failure occurs when that region expands over the entire tube. The corresponding relationship coincides with a formula for critical pressure and an ideally plastic tube. The author formulated and solved a differential equation to define period to failure. Expressions are given for period to failure in the presence of linear creep for cases of

L 23344-65
ACCESSION NR: AR404033

ductile and ductile-plastic fractures, and a solution for thin-walled tubes. L. I.
Mirkin.

SUB CODE: AS

ENCL: 00

KURATOV, P.S., kand. tekhn. nauk, dotsent; ROZENBLYUM, V.I., kand. tekhn. nauk

Concerning the book "Strength of steam turbine components" by L.A.
Shubenko-Shubira and others. Reviewed by P.S. Kuratov, V.I. Rozenblum.
Energorashinostroenie 10 no.8:44-45 Ag '64. (MIRA 17:11)

ROZENBLYUM, V.I., kand. tekhn. nauk

Calculation of the operating life of seamless forged steam turbine
rotors. Energomashinostroenie 10 no.8:15-18 Ag '64. (MIRA 17:11)

ROZENBLYUM, V.I., kand. tekhn. nauk

Strength of steam turbine component during long-term operation.
Energomashinostroenie 11 no.9:49 S '65. (MIRA 18:10)

ROZENBLYUM, V.I.

Strength of steam turbine components in long-term operation.
Energomashinostroenie 11 no.10:48, p.3 of cover 0 '65.

(MIRA 18:11)

L-11579-56 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(h)/ETC(m)-6 IJP(c)
 ACC NR: AP6002323 JD/WW/EM SOURCE CODE: UR/0373/65/000/006/0087/0089

AUTHOR: Rozenblyum, V. I. (Leningrad)

ORG: none

TITLE: The momentless boundary effect in axially symmetric shells under creep

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 6, 1965, 87-89

TOPIC TAGS: shell, shell theory, cylindrical shell, creep

ABSTRACT: A study is made of creep of an axisymmetrically loaded cylindrical shell and also of an arbitrary shell of rotation. Axial and radial components of the translation vector for points of the median surface of the cylindrical shell are denoted by u and w . Relative expansion in the axial and circumferential directions are equal to

$$\epsilon_1 = du/dz, \quad \epsilon_2 = w/a.$$

Linearized equations of equilibrium of a cylindrical shell are of the form

$$-T_1 \frac{d^2w}{dz^2} + \frac{T_2}{a} = p(z), \quad \frac{dT_1}{dz} = 0,$$

where T_1 and T_2 are the axial and circumferential membrane forces and $p(z)$ is the distributed radial loading. Creep equations are

$$\begin{cases} \epsilon_1 = A (\sigma_1^2 - \sigma_1 \sigma_2 + \sigma_2^2)^{1/(m-1)} (\sigma_1 - 1/2 \sigma_2) \\ \epsilon_2 = A (\sigma_1^2 - \sigma_1 \sigma_2 + \sigma_2^2)^{1/(m-1)} (\sigma_2 - 1/2 \sigma_1) \end{cases}$$

L 14579-66

ACC NR: AP6002323

where $m > 1$ is the creep index, and $A(t)$ is the creep coefficient as a function of time. Solutions describing the creep characteristics are found for several cases of loading, geometries, and boundary conditions. The method of solution is that proposed by Yu. N. Rabotnov (Nekotoryye resheniya bezmomentnoy teorii obolochek, PMM, 1964, vyp. 5, 6). Plots are made of the equation of equilibrium for the nonmoment theory including the effects of shell distortion under load. Orig. art. has: 2 figures and 16 equations.

SUB CODE: 20, 13/ SUBM DATE: 20Jul65/ ORIG REF: 003

FW

ROZENBLYUM, V.T. (Leningrad)

Effect of compressibility on the plastic flow of elasto-plastic
solids. Izv. AM SSSR. Mekh. no.3:95-101. My-Je 1965.

(MIRA 12-7)

ROZENBLYUM, V.I.

Approximate analysis of the unsteady creep of plates and
shells. Issl. po uprug. i plast. no.3:88-95 '64. (MIRA 18:4)

ROZENBLYUM, V.I.

Approximate analysis of unsteady creep of plates and
shells. Issl. po uprug. i plast. no.3:88-95 '64.
(MIRA 17:6)

ROZENBLYUM, V.I. (Leningrad)

Approximate equations describing creep of thin-walled
shells. Prikl. mat. i mekh. 27 no.1:154-159 Ja-F '63,

(MIRA 16:11)

ROZENBLYUM, V.I., kand. tekhn. nauk; CHERNINA, V.S., kand. tekhn. nauk

Calculation of the strength of turbine diaphragms.
Energomashinostroenie 9 no.10:34-35 O '63. (MIRA 16:10)

ROZENBLYUM, V.I. (Leningrad)

"On the compressibility effect on plastic flow of elastic-plastic solids"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

ZEMZIN, Viktor Nikolayevich; FRENKEL', Leonid Davydovich. Prinimal
uchastiye ROZENBLYUM, V.I.; ANTONOV, S.N., inzh., retsenzent;
OKERBLOMA, N.O., doktor tekhn. nauk, prof., red.; BOCHAROVA,
Ye.G., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Welded elements for steam and gas turbines] Svarnye konstruktsii
parovykh i gazovykh turbin. Pod red. N.O.Lkerbloma. Moskva,
Mashgiz, 1962. 222 p. (MIR 15:7)

(Electric welding) (Gas turbines)
(Steam turbines)

ROZENBLYUM, V.I. (Leningrad)

Axisymmetric creep of cylindrical bodies in temperature variations
along the axis. PNTF no.6:123-127 N-D '61. (MIRA 14:12)
(Creep of materials)

ROZENBLYUM, V.I. (Leningrad)

Unsteady creep in zero-torque shells. PMTF no.4:82-84 N-D
'60. (MIRA 14:7)

(Creep of materials)
(Elastic plates and shells)

ROZENBLYUM, V.I. (Leningrad)

Zero-torque boundary effect in axisymmetric shells under creep
conditions. Izv. AN SSSR. Mekh. no.6:87-89 N-D '65.
(MIRA 18:12)

L05013-67 EW(m)/EWF(r)/ETI LJP(r) JD/R
ACC NM AT6031662

SOURCE CODE: UR/2674/65/000/027/0207/0214

AUTHOR: Shafran, I. G.; Rozenblyum, V. P.

28
B71

ORG: none

TITLE: Communication III. Kinetic biamperometric microdetermination of nanogram amounts of molybdenum

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobu chistykh khimicheskikh veshchestv. Trudy, no. 27, 1965. Khimicheskiye reaktivy i preparaty (Chemical reagents and preparations), 207-214

TOPIC TAGS: molybdenum, selenic acid, iodine

ABSTRACT: A kinetic biamperometric method of determine nanogram quantities of molybdenum has been developed. This method makes it possible to determine 0.002—0.003 μg of molybdenum with a relative maximum error of 25%, and a mean square deviation of six determinations, equaling 0.0005 μg . The influence of a series of additions on the precision of molybdenum determination by this method had been established. The significant accelerating effect of selenic acid

L-05013-67

ACC NR: AT6031662

on the reaction of iodine oxidation by hydrogen peroxide was discovered. The determination of small amounts of selenic acid is of interest in the development of a kinetic biamperometric method. The possibilities that this method will significantly increase the sensitivity of determination of a series of other elements are indicated. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 07, 08/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 006/

SHVARTS, A.S., kand.tekhn.nauk; ROZENBLIUM, Ya.Sh., inzh.

Improving the technique of the cementing method for sole attachment.
Kozh.-obuv.prom. 7 no.3:13-16 Mr '65.

(MIRA 18:10)

ROZENBLYUM, Yakov Shevel'yevich; MURAV'YEV, M.I., nauchnyy red.;
GABOVA, D.M., red.; SHVETSOV, S.V., tekhn. red.

[The SPR sole-stitching machine and the UPM angle-sewing machine]
Mashina SPR dlia pristrochki podoshv i ugloproshivaniia mashina
UPM. Moskva, Rostekhizdat, 1961. 181 p. (MIRA 15:6)
(Shoe machinery)

KABANOV, Vladimir Fedorovich; KRISHTAL', Il'ya Samoylovich; MALINOVSKAYA,
Mariya Lavrent'yevna; MELAMUD, Yefim Yakovlevich; ROZENBLYUM, Yefim
Grigor'yevich; MOSHAROVA, T.P., red.; TIKHONOVA, Ye.A., tekhn. red.

[Handbook of time norms for lathework in ship repairing] Spravochnik
norm i normativov vremeni na tokarnye raboty v sudoremonte. Moskva,
Izd-vo "Morskoi transport," 1961. 301 p. (MIRA 14:12)
(Turning) (Ships--Maintenance and repair)

GUREVICH, G.L.; OTMAKHOV, Yu.A.; ROZENBLYUM, Ye.A.

Propagation of electromagnetic beams in gyrotropic media.

Izv. vys. ucheb. zav.; radiofiz. 8 no.4:725-737 '65.

(MIRA 18:9)

ROZENBLYUM, Ye.N.; POCHTMAN, Zh.Ya.

Determination of antimony with phenylfluorone in active lead
masses. Zav.lab. 29 no.8:929 '63. (MIRA 16:9)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy akkumulya-
tornyy institut.
(Antimony—Analysis) (Xanthenone)

POVERENIY, M.; ROZENBLYUM, Yu., kand.ekon.nauk

Increase control over the planning and distribution of goods through
the ruble. Fin. SSSR 21 no.9:50-52 S '60. (MIRA 13:9)

1. Starshiy ekonomist Rostovskogo-na-Donu gorodskogo finansovogo
otdela (for Poverenny).
(Rostov-on-Don--Retail trade--Finance) (Textile fabrics)

DESHKO, Yu.I., inzh.; SHLEMOVICH, V.I., inzh.; KOPENLYUM, Yu.B., inzh.;
LARIN, S.A., inzh.

Device for the semiautomatic loading of cement from silos to
cement trucks. TSement 30 no.5:18-19 S-0 164.

(MIRA 17:12)

1. Vsesoyuznoye gosudarstvennoye spetsial'noye byuro po provedeniyu
pusko-naladchnykh i proyektno-konstruktorskikh rabot v tsementnoy
promyshlennosti Gosstroya SSSR.

ROZENDORN, E.R.

Realization of the metric $ds^2 = du^2 + f(u)dv^2$ in five-dimensional
Euclid space. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 13 no.4:
85-87 '60. (MIRA 13:9)

(Geometry)

ROZENDORN, E.R.

Realization of the metric $ds^2 = du^2 + f^2(u) dv^2$ in a five-dimensional Euclidian space. Dokl. AN Arm. SSR 30 no.4:197-199 '60.
(MIRA 13:8)

1. Predstavleno akad. AN Armayanskoy SSR M.M. Dzhrbashyanom.
(Distance geometry)

ROZENTRYTT, J.

To plan or not to plan. p. 61.

RACJONALIZATOR. (Centralny Zwiiazek Spoldzielczości Pracy) Warszawa.
Vol. 6, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI LC. Vol. 6, no. 7, July 1959.

Uncl.

ROZENBLYUM, Ye. N.

AUTHORS: Terkotsev, V. V., Rozenblyum, Ye. N., 75-6-15/23
Kryukova, Z. S., Klebanova, F. M.

TITLE: The Determination of Lead Sulphate in the Active Mass of Lead Storage Batteries (Ob opredelenii sulfata svintsa v aktivnykh massakh svintsovых akkumulyatorov).

PERIODICAL: Zhurnal Analiticheskoy Khimii, 1957, Vol. 12, Nr 6, pp. 736-739
(USSR).

ABSTRACT: The unsuitability of the soda method for the determination of $PbSO_4$ at a low lead content in the active mass of lead storage batteries is described. An incomplete solution of $PbSO_4$ occurs because of Na_2CO_3 whereby the results are lower.
It is recommended to treat the positive charged platelets with acid and the negative charged platelets with a mixture consisting of equal parts of $5NCH_3COOH$ and $5NCH_3COONH_4$. The proposed method is four- to five times shorter than the usual soda method.
There are 3 tables.

Card 1/2

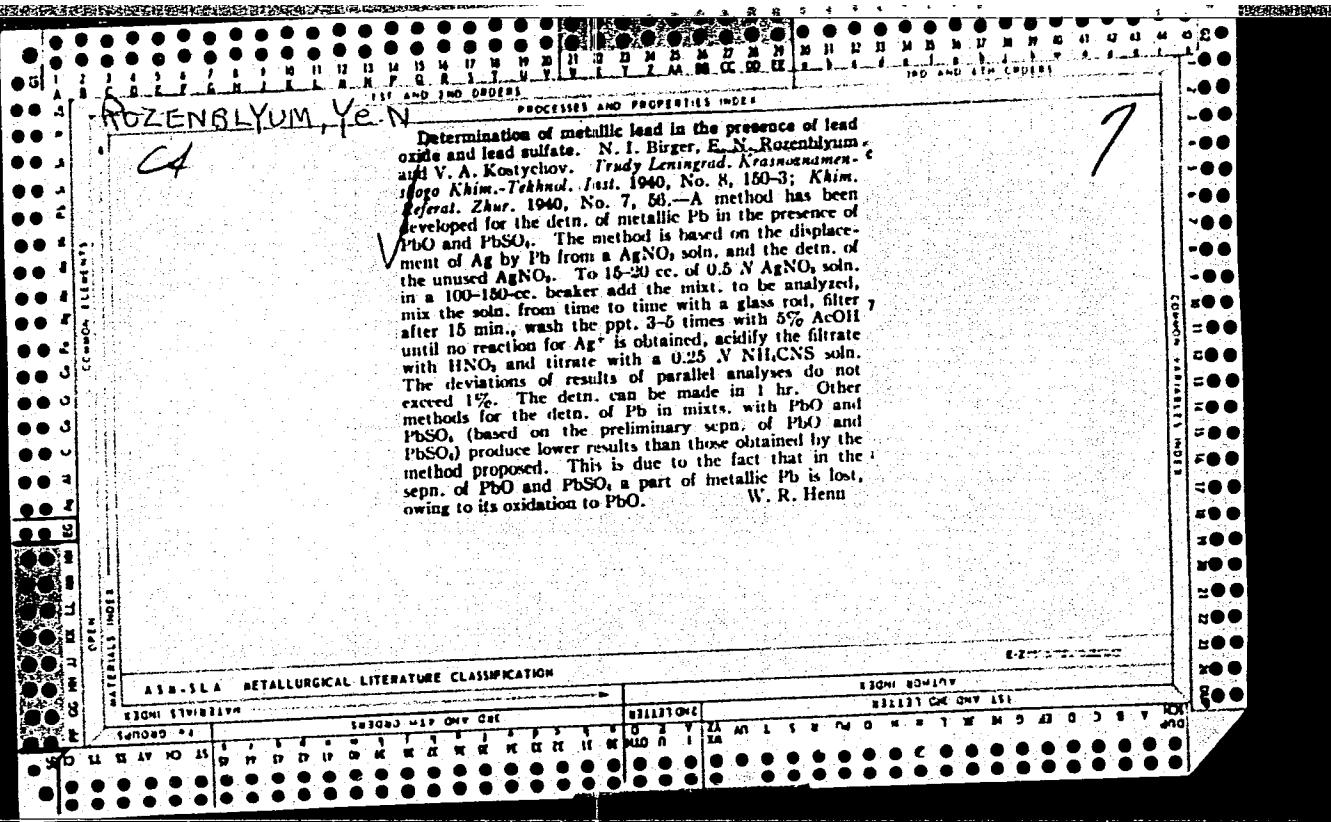
The Determination of Lead Sulphate in the Active Mass of Lead 75-6-15/23
Storage Batteries.

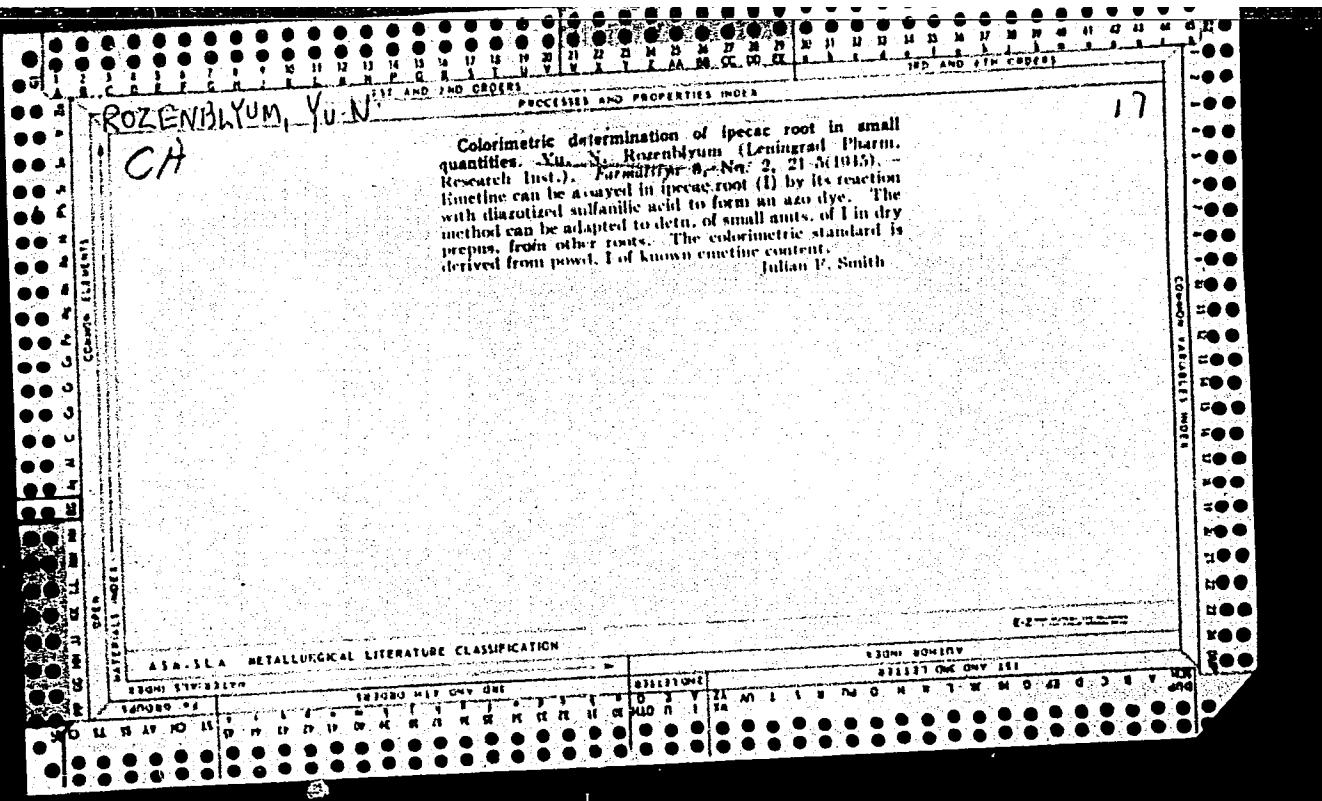
ASSOCIATION: Institute of Scientific Research on Storage Batteries, Leningrad
(Nauchno issledovatel'skiy akkumulyatornyy institut, Leningrad).

SUBMITTED: October 6, 1956.

AVAILABLE: Library of Congress.

1. Lead sulfite-Determination 2. Storage batteries-Active
lead mass





ROZIMBLYUM, Yu. N.

"Study of the Chemical Properties of Substances, Derived from Mountain Ash,"
Med. From., No. 1, 1948.
Mbr., Leningrad Sci. Res. Chemico-Pharmaceutical Inst., -cl948-.

ROZENBLYUM, Yakov Shevelevich; MURAV'YEV, M.I., inzh., retsenzent;
KNAKHOVSKAYA, L.M., red.; PYATNITSKIY, V.N., tekhn.red.;
VINOGRADOVA, G.A., tekhn. red.

[MVR-1 machine for the sewing on welt] Mashina MVR-1 dlja
vshivaniia ranta. Moskva, Gizlegprom, 1963. 113 p.
(MIRA 17:3)

BANITA, L.; ROZENBLYUM, Ye.

Progressive workers are revealing potentialities. Mor. flot 23
no.11:5-6 N '63. (MIRA 16:12)

1. Sotrudnik mnogotirazhnoy gazety "Sudoremontnik" (for Banita).
2. Zamestitel' nachal'nika otdela truda i zárobotnoy platy Odes-skogo sudoremontnogo zavoda No.1 (for Rozenblyum).

ROZENBLYUM, Yu.Z.

Affection of the eyes in quinine poisoning. Trudy AN Tadzh.SSR
40:153-157 '55. (MIRA 9:10)

1. Iz kafedry glaznykh bolezney (zav. -prof. L.F. Paradoksov; decensed)
Stalinabndskogo gosudarstvennogo meditsinskogo instituta imeni Abuali
ibn-Sino (dir. -chl. -korr. Akademii nauk Tadzhikskoy SSR Ya. A. Ra-
khimov).

(EYE--DISEASES AND DEFECTS) (QUININE--TOXICOLOGY)

ROZENBLYUM, Yu. Z.

Vector scheme in the composition of crossed cylinders. Nov. med.
(MIRA 14:12)
tekh. no.2:60-64 '61.

(ASTIGMATISM) (EYE—ACCOMMODATION AND REFRACTION)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620001-8

ROZENBLYUM Yu. Z.

Tonic spasm of accomodation. Trudy AN Tadzh. SSR 40:163-167 '55.
(MIRA 9:10)

(EYE--ACCOMODATION AND REFRACTION)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620001-8"

ROZENBLYUM, Ye.Z.; VOVSKI, B.M., ordinator.

Case of malignant melanoma of the vascular membrane combined with heterochromia. Trudy AN Tadzh.SSR 40:177-178 '55. (MIRA 9:10)

1. Iz kafedry glaznykh bolezney (zav. - prof. L.F. Paradoksov; deceased) Stalinabadskogo gosudarstvennogo meditsinskogo instituta imeni Aduali ibn-Sina (dir. - chl. - Korr. Akademii nauk Tadzhikskoy SSR Ya.A.Rakhimov).

(EYE --CANCER) (IRIS(EYE) --ABNORMITIES AND DEFORMITIES)

ROZENBLIUM, Yu. Z.

Subjective methods in the study of refraction in astigmatism. Nov.
med. tekhn. no.1:60-68 '61. (MIRA 14:12)

(ASTIGMATISM)

ROZENBLYUM, Z.I., kand.med.nauk, DUMER, L.V.

Rheumatic fever in the far North; data from Noril'sk. Sov.med.
(MIRA 11:11)
22 no.9:37-39 S '58

1. Iz lechbno-profilakticheskogo ob'yedineniya Noril'ska
(zav. terapeuticheskim ottdeleniyem S.I. Rozenblyum, glavnnyy
vrach Ye.A. Ozolina).
(RHEUMATIC FEVER, epidemic!
in Arctic area of Russia (Rus))

EXCEPPTA MEDICA Sec 6 Vol 13/10 Internal Med Oct 50

5044. RHEUMATISM IN THE FAR NORTH. (ACCORDING TO MATERIALS OF NORILSK) (Russian text) - Rozenblyum Z.I. and Dumer L.V. - SOV. MED. 1958, 22/9 (37-39) Tables 4

Rheumatic diseases occur less frequently in Norilsk than in the large towns of Mid-Russia. The patients are mostly subjects who recently came to reside in the North. Most diseases and relapses are observed in the second part of winter and in spring; the incidence is smallest in autumn and the beginning of winter. The relative incidence of localizations in heart and vessels is somewhat lower than in Leningrad.

(VI,19)

124-57-1-1053

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 148 (USSR)

AUTHOR: Rozenblyumas, A.

TITLE: To the Calculation of Frames by Means of Successive-approximation Methods (K voprosu rascheta ram sposobami posledovatel'nykh priblizheniy)

PERIODICAL: Kauno politechn. inst. darbai, Tr. Kaunassk. politekhn. in-ta,
1955, Vol 3, pp 281-282

ABSTRACT: It is proposed that, in the calculation of frames with nondisplaceable joints according to Cross, the process of successive approximations be applied to the computation of the joint moments of the bars and the total "charging" moment acting on a joint. This method permits, ultimately, to find readily the rotation angles ϕ of all the joints (cf. Timoshenko, S., History of Strength of Materials. McGraw-Hill Book Co., New York, London, Toronto, 1953, p 423). In this case the numerical operations of the iterative process are greatly simplified in comparison with the usual Cross calculations. When all the angles ϕ are known, the support moments of the bars are computed according to the

124-57-1-1053

To the Calculation of Frames by Means of Successive-approximation (cont.)

set forth is a modified method, wherein entire groups of joints are balanced simultaneously. Examples of calculations are adduced.

- ## 1. Structures--Joints--Mathematical analysis 2. Approximate computation--Applications A. A. Pikoškiy

Card 2/2

ROZENBLYUMAS, A.M., kand. tekhn. nauk (Kaunas)

Approximate calculation of free frames using linearly displacing
basic systems. Issl. po teor. sooruzh. no.8:395-406 '59.
(MIRA 12:12)

(Structural frames)

ROZENBLYUMAS, A.M., kand.tekhn.nauk, laureat Gosudarstvennoy premii Litovskoy SSR.

Designing prestressed reinforced concrete sections for crack resistance by substituting elastic cross-sections. Bet.i zhel.-bet. no.7:326-330 Jl '60. (MIRA 13:7)
(Strains and stresses)

ROZENBLYUMAS, A.M., laureat Gosudarstvennoy premii Litovskoy SSR, kand.
tekhn.nauk

Method of determining the moments of resistance of elastoplastic
sections. Bet.i zhel.-bet. 8 no.4:189-191 Ap '62. (MIRA 15:5)
(Elastic plates and shells)

ROZENBLYUMAS, Anatoliy Moiseyevich; SHMURNOV, K.V., nauchn. red.

[Masonry construction elements] Kamennye konstruktsii.
Moskva, Vysshiaia shkola, 1964. 300 p. (MIRA 19:1)

L 42297-66 EWT(1) GG

ACC NR: AP5022796

SOURCE CODE: UR/0141/65/008/004/0725/0737

AUTHOR: Gurevich, G. L.; Otmakhov, Yu. A.; Rozenblyum, Ye. A.

55
54
B

ORG: none

TITLE: Electromagnetic beam propagation in gyrotropic media

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 725-737

TOPIC TAGS: electromagnetic beam, wave propagation, ferrite, electromagnetic wave diffraction, approximate solution

ABSTRACT: The problem of the propagation of electromagnetic beams in an infinite gyrotropic medium is solved with consideration of spatial dispersion. Specific examples of electromagnetic beam propagation in a ferrite with and without absorption are examined. The author examines the case where the ratio of the wavelength to the characteristic dimensions of the field is small but not equal to zero. It is shown that in this case it is possible to obtain results in a form analogous to the Fresnel formula in the diffraction theory. In some cases this permits the direct use of the results of this theory. The approximation used by the authors is called quasi-optic and the solutions obtained in this approximation are called beams, as for isotropic media. Although the examination pertains to ferrites, the results can easily be ex-

L 42297-66

ACC NR: AP5022796

tended to any gyrotropic medium and to the case of active linear media with tensor parameters.
The authors thank V. I. Talanov for his interest in the work. Orig. art. has: 6 figures and
45 formulas.

SUB CODE: 12,20 / SUBM DATE: 10Oct64 / ORIG REF: 006 / OTH REF: 003

The synthesis of difurylacrylylmethane and dithiopheneacrylylmethane. W. LAMPK, S. ROZENBLUMOWNA AND A. KESSEL. *Chem. Listy* 26, 454-8(1932)(in Polish).—Furylacrylyl chloride is heated for 2 hrs. on a water bath with AcCH_2COEt and metallic Na in ether. A little acidified H_2O is added, and the mixt. is washed several times with a 2% NaOH, leaving Et furylacrylylacetate (I), $\text{C}_6\text{H}_5\text{OCH}(\text{CH}_2\text{COCH}_2\text{COEt})_2$ which crystallizes from EtOH as golden needles m. 50-2°, and gives a red soln. with FeCl_3 . Heating 2 g. of I in an autoclave at 3 atm. pressure produced furylacrylylacetone (II), $\text{C}_6\text{H}_5\text{OCH}(\text{CH}_2\text{COCH}_2)_2\text{CO}$, golden crystals from EtOH, m. 62-4°. Two g. of II with 0.3 g. metallic Na in ether to which a little furylacrylyl chloride was added was refluxed for 2 hrs. on a water bath, forming bright golden crystals, m. 98-100°, of difurylacrylylacetone (III), $\text{MeCOCH}(\text{COCH}_2\text{CH}_2\text{O})_2$. A soln. of III was satd. with an alk. gas, splitting off the acyl group and leaving difurylacrylylmethane (IV), $\text{CH}_3(\text{COCH}_2\text{CH}_2\text{O})_2$; in EtOH IV gives a green fluorescence, forms orange prismatic needles m. 128-130°, forms a dark red soln. with FeCl_3 ; it is sol. in Et_2O , CHCl_3 and C_6H_6 but with difficulty in ligroin. Using the synthesis for I, Et α -thiopheneacrylylacetate was prep'd. from thiopheneacrylyl chloride, forming yellow needles from EtOH m. 65°, sol. in Et_2O , C_6H_6 , CHCl_3 and ligroin. α -Thiopheneacrylylacetone formed yellow plates from EtOH m. 80-7°. Dithiopheneacrylylacetone (V) crystallized from ether and ligroin in yellow needles forming clusters in. 107-8°, sol. in EtOH , CHCl_3 and C_6H_6 . With FeCl_3 an alc. soln. turns dark red. Dithiopheneacrylylmethane (VI) was prep'd. from 1 g. V with 50 cc. Pb acetate soln. and addition of H_2O until slightly cloudy. The mixt. was heated on a water bath at 110° for several hrs. Recrystl. from EtOH VI forms fine orange needles, m. 182-4°, sol. in Et_2O , CHCl_3 and C_6H_6 . Alc. solns. give a green fluorescence, and a bronze-colored soln. forms with aq. FeCl_3 . Cotton goods are colored intensely yellow. Absorption spectra show a max. absorption at $\lambda = 4128\text{A. U.}$ for IV and 4228A. U. for VI. P. M.

APPROVED FOR RELEASE: 07/13/2001

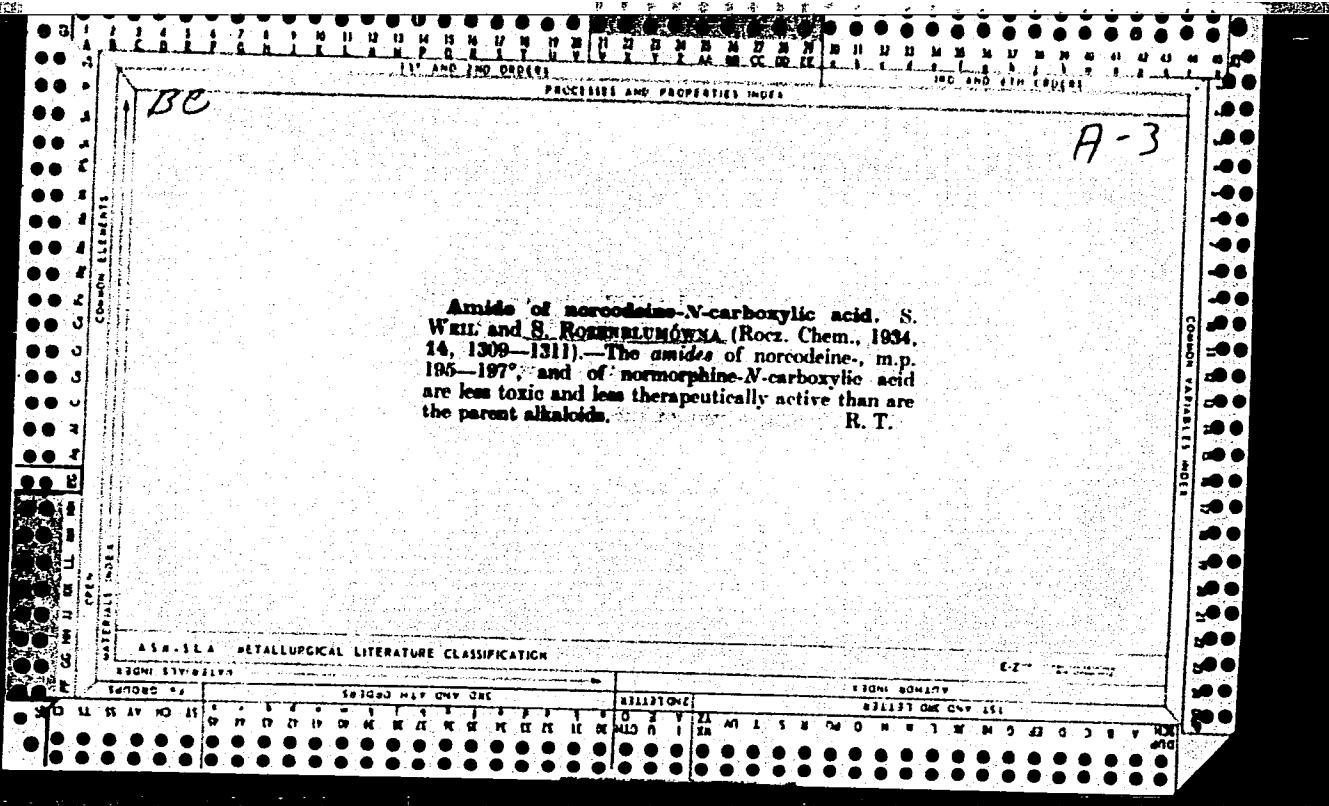
CIA-RDP86-00513R001445620001-8"

Synthesis of *alpha*-methyl- and diisobutyl-acryloylmethane. W. LARSEN, S. KOMARYAN, D. M. LEE, and A. KREMER. (Chem. & Ind., 1952, 24, 454—458).—*B-Furylacryloyl* chloride (I) combines with Et sodium acetoacetate to yield m.p. 50°—52°, which on heating eliminates CO to give *beta*-*acetyl-2-furylacrylic acid* (II), m.p. 62°—64°. The Na salt of (II) combines with (I) to yield di-*B-furylacryloyl* acetone, m.p. 98°—100°, which on hydrolysis eliminates AcOH to yield di-*B-furylacryloylpropanone* (III), m.p. 123°—125°. The corresponding thienyl compounds prepared similarly give di-*B-thienylacryloyl* chloride, m.p. 126°—128°, di-*B-thienylacryloyl* acetate, m.p. 65°, di-*B-thienylacryloylpropanone*, m.p. 107°—108°, and di-*B-thienylacryloylpropanoic acid* (IV), m.p. 182°—184°. (III) and (IV) are substantive yellow dyes for cotton. Solutions of (III) give max. absorption for λ 4128 Å. of (IV) for λ 4238 Å., as compared with 3780 Å. for the corresponding Ph derivative. R. T.

a-3

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620001-8"



CONSTANTINESCU, N.; BERCOVICI, C.; ZAVATE, Olga; PETRESCU, Iulia; DAMATIRCA, D.;
PLACSIM, Al.; ROZENBOIM, Etty

A hydric epidemic of epidemic hepatitis preceded by dysentery.

Stud. cercet. inframicrobiol. 13 no.4:443-448 '62.

(HEPATITIS, INFECTIOUS) (WATER POLLUTION)

(DYSENTERY, BACILLARY)

I 42895-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(j)/T/EWP(t)/ETI/EWP(k) LIP(c)

ACC NR: AP6029809 (N) SOURCE CODE: UR/0229/66/000/007/0051/0054

JD/NW/HM/EM/DJ/RM/JH

AUTHOR: Rozenboym, G. B.; Serebrennikova, Ye. A.

ORG: none

TITLE: Effect of freon-22 on aluminum alloys and nonmetallic materials

SOURCE: Sudostroyeniye, no. 7, 1966, 51-54

TOPIC TAGS: aluminum ~~magnesium~~ alloy, manganese containing alloy, titanium containing alloy, copper containing alloy, epoxy resin, synthetic material, insulating material/ AMg-3M alloy, AMg-5VM alloy, AMg-6 alloy, D-16AT alloy, 45MG-2 alloy

ABSTRACT: The corrosion behavior of wrought aluminum alloys AMg-3M, AMg-5VM, AMg-6, D-16AT¹⁶ and cast alloy 45 Mg-2 (4.8—6.5% magnesium) was tested in a circulating mixture of freon-22 and freon oil¹⁶ for 400 days. No visible signs of corrosion were found on AMg-3M, AMg-5V, AMg-6 alloys, and D16 alloy specimens. However, the 45Mg-2 alloy specimens corroded, but only in the first 30—90 days. This appears to be associated with a poor quality of castings. Good-quality castings are expected to be fully resistant to freon. The mechanical properties of both wrought and cast alloys were not affected by freon. In another series of experiments, several plastics, insulating materials, and epoxy compounds were tested. Specimens of 45 steel and 45Mg-2 alloy glued with cold-setting or thermosetting epoxy glue¹⁶ were tested in freon for 320 days. The cold-setting epoxy glue softened and specimens separated after

78

74

B

L 42595..66

ACC NR: AP6029809

710
4

30—60 days; the strength of the thermosetting epoxy glue joint dropped on the average by 28—33% after 60 days and by 37—41% after 320 days. No leaks were observed in hydraulic tests of thermosetting epoxy glue joints with a pressure of 100 kg/cm² for 5 min. Plastic and insulating materials were tested in freon for 30—300 days. The weight of fluorine rubber and glass-varnish cloth showed little or no change, while the weight of polysiloxane, rubber, and glass-reinforced plastic sharply increased in the first test period, which was followed by decomposition of materials. The weight change of plastic glass caprone, polyfluoroethylene-4, and vinylplastic-VN did not exceed 5% after 300 days. Orig. art. has: 4 figures. [AZ]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 001/ ATD PRESS: 5069

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620001-8

ROZENBOYM, G.B., inzh.; SEREBRENNIKOVA, Ye.A., inzh.; TREGUB, Ye.S., inzh.

Enamel lactate films for finishing ship structures. Sudostroenie
27 no.12:49-51 D '61. (MIRA 15:1)
(Protective coatings) (Shipbuilding)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620001-8"

ROZENBOYM, G.B.; KRESIAN, M.G.

Greasing press molds for pressure casting. Lit.proizv. no.9:29
D'54. (MIRA 8:2)
(Die casting)

ROZENBOYM, G.B., inzh.

Use of epoxy resins. Sudostroenie 27 no.5:45-49 My '61.
(MIRA 14:6)

(Epoxy resins)
(Shipbuilding)

SOVALOV, I., kand.tekhn.nauk; ROZENBOYM, L., inzh.

Packing low-mobility concrete mixes by vibration rods. Rech.
transp. 20 no. 2:25-26 F '61. (MIRA 14:2)
(Ships, Concrete)

SOVALOV, Iona Grigor'yevich, kand. tekhn. nauk; YAKOBSON, Yakov Maksimovich, inzh.; ROZENBOYM, Lev Sidorovich, inzh.; LALAKINA, Tamara Aleksandrovna, inzh.

[Improving the quality of precast reinforced concrete produced in plants] Povyshenie kachestva sbornogo zhelezbetona zavodskogo proizvodstva. [By] I.G.Sovalov i dr. Moskva, Stroizdat, 1964. 182 p. (MIRA 17:10)

SOVALOV, I.G., kand. tekhn.nauk; ROZENBOYM, L.S., inzh.;
KUCHEROVSKIY, O.A., inzh.; RAYSKAYA, A.D., inzh.;
OSMAKOV, S.A., kand. tekhn. nauk; BRAUDE, F.G., inzh.;
FINKINSHTEYN, B.A., inzh., red.

[Methods of molding precast concrete products] Metody
formovaniia stornykh zhelezobetonnykh izdelii. Moskva,
Gosstroizdat, 1963. 49 p. (MIRA 17:9)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.
2. Rukovoditel' laboratori i betonnykh i zhelezobetonnykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva, Mo-skva(for Sovalov).
3. Laboratoriya betonnykh i zhelezobetonnykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva, Moskva (for Rozenboym, Kucherovskiy, Rayskaya).
4. Sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot(for Osmakov . Braude).

ZHBANKOV, R.G.; IVANOVA, N.V.; ROZENBURG, A.Ya.

Infrared spectra of cellulose in aqueous alkaline solutions. Zav.
(MIRA 15:11)
lab. 28 no.11:1324-1326 '62.

1. Institut fiziki AN Belorusskoy SSR.
(Cellulose--Spectra)

L 57803-65 EWT(m)/EWP(1)/EWP(b)/EWP(t) JD

UR/0124/65/000/004/V016/V016

ACCESSION NR: AR5013972

12

B

SOURCE: Ref. zh. Mekhanika, Abs. 4V97

AUTHOR: Rozendent, B. Ya.

TITLE: The problem of selecting a filler for three-layered constructions

CITED SOURCE: Tr. Kaliningr. tekhn. in-ta rybn. prom-sti i kh-va, vyp. 18, 1963,
77-89

TOPIC TAGS: plywood, marine engineering, construction material

TRANSLATION: The main and the secondary requirements that must be satisfied by the filler of a three-layered construction are formulated. Of the currently available fillers for light marine vessel superstructures, deck structures, and partitions, porous fillers are the most suitable; they cannot be used in ships' bodies unless the thickness of the external steel cladding of a ship of a standard design exceeds 3-4 mm. Porous reinforced fillers representing a combination of a porous and a ribbed filler should be used for strong ship constructions. The main characteristic of a filler is represented by the relation between its shear modulus and its density. A proposed relation between these quantities is

L 57803-65
ACCESSION NR: AR5013972

$$\bar{G} = k \bar{\gamma}^p$$

where \bar{G} is the relative modulus of shear, $\bar{\gamma}$ is the relative density. Tables of various types of fillers contain the values of the coefficients k and p . Preparation and testing of several three-layered constructions for ships are announced. A bibliography of 10 entries is included. I. Tryanin

ENCL: 00

SUB CODE: IE, MT

I 57802-65 EWT(d)/EWT(m)/EWP(k)/EWP(w) Pf=4 EM
ACCESSION NR: AR5013971

UR/0124/65/000/004/V016/V016

17
B

SOURCE: Ref. zh. Mekhanika, Abs. 4V96

AUTHOR: Rozendent, B. Ya.

TITLE: Determination of the optimal parameters for a filler of a three-layered orthotropic panel.

CITED SOURCE: Tr. Kaliningr. tekhn. in-ta rybn. prom-sti i kh-va, vyp. 18, 1963,
90-102

TOPIC TAGS: plywood, construction material, bending, shear

TRANSLATION: Thickness and shear modulus of a filler are sought for given thicknesses of the surface layers in a three-layered plate, at which the weight of the plate will be at the minimum. The density and shear modulus of a filler bear a parabolic relation to one another. For plates under transverse bending, the amount of a maximum bending is assigned, and for those under compression--the amount of Euler stress. The case of a linear relation between the shear modulus and the density is eliminated from the analysis because in this case, according to the formulas obtained, the minimal weight is exhibited by a plate of infinite thickness.

Card 1/2

L 57802-65

ACCESSION NR: AR5013971

The influence of the initial failure on the selection of the optimal parameters is analyzed. A bibliography of 12 entries is included. I. Tryanin

SUB CODE: AS, IE

ENCL: 00

ACC NR: A17007590

SOURCE CODE: UR/0042/66/021/005/0059/0116

AUTHOR: Eszendorfi, E. R.

ORG: none

TITLE: Weakly irregular surfaces with negative curvature

SOURCE: Uspekhi matematicheskikh nauk, v. 21, no. 5, 1966, 59-116

TOPIC TAGS: geometry, mathematics

SUB CODE: 12

ABSTRACT: This three-chapter paper deals with certain problems in the qualitative theory of saddle-type surfaces. A study is made of the properties of smooth surfaces which are regular everywhere except in certain points, assuming that outside these points the Gaussian curvature K is negative.

In the first chapter various local properties of surface S are investigated in the vicinity of a weakly irregular point O , specifically the effect of the internal metric on the external geometric properties of the surface.

The methods of constructing weakly irregular surfaces are examined in the second chapter. The first is S. Ye. Kon-Fosser's method, which permits one to freely construct an immersion of any regular two-dimensional Riemannian metric with negative curvature in a three-dimensional Euclidean space E_3 , forming a weak irregularity of the surface at any designated point.

A method is also given for constructing saddles of any desired high order with a continuous (and even differentiable) negative curvature K and bounded by a negative curvature H . Examples are given showing the possible features of the asymptotic network.

Card 1/2

ACC NR: AP7007590

Complete surfaces with negative curvature in E_3 and E_4 are examined in the third chapter.

The subject matter in this paper is closely related to that in the paper by N. V. Yefimov (Surfaces with Gradually Varying Negative Curvatures) in the same issue of the journal. The basic results reviewed have been published piecemeal earlier. Here they are strengthened and improved, and new material appears thereby for the first time. An appendix lists a number of unsolved problems.

The author thanks N. V. Yefimov for reading the manuscript and commenting on the work. Original article has 20 figures and 38 references.

Orig. art. has: 20 figures and 12 formulas. [JPRS: 39,848]

ROZENDORN, E. R. (Moskva)

Total surfaces of negative curvature $K < -1$ in Euclidean E_3 ,
and E_4 spaces. Mat. sbor. 58 no.4:453-478 D '62.
(MIRA 16:1)

(Surfaces) (Differential geometry)

ROZENDORN, E.R.

Isolated singular point on a surface of negative curvature with a
regular metric. Dokl. AN SSSR 149 no.4:780-783 Ap '63.
(MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком P.S.Aleksandrovym.
(Surfaces) (Distance geometry)

BOLTYANSKIY, V.G. (Moskva); ROZENDORN, E.R. (Moskva)

The 21st Mathematics Olympiad for the schools of Moscow. Mat.pros.
no.6:301-309 '61. (MIRA 15:3)
(Moscow--Mathematics--Competitions)

16.5600

S/022/60/013/004/007/007XX
81305
0111/C222AUTHOR: Rozendorn, E.R.TITLE: Realizability of the Metric $ds^2 = du^2 + f^2(u)dv^2$ in the Five-Dimensional Euclidean Space

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1960, Vol.13, No.4, pp.85-87

TEXT: Let

$$\varphi_1(u) = \left(\int_0^u e^{\frac{1}{\sin^2 \pi t} \sin \pi t} dt \right)^{-\frac{1}{2}} \cdot \left(\int_0^{u+1} e^{\frac{1}{\sin^2 \pi t} \sin \pi t} dt \right)^{\frac{1}{2}},$$

$\varphi_2(u) = \varphi_1(u-1)$. Let $f(u)$ be a positive, continuously differentiable function, $-\infty < u < \infty$. Let $\Psi_1(u) = Na ([\max_{2n-1 \leq u \leq 2n+1} (|f|, |f'|)] + 1)$ if $2n-1 \leq u \leq 2n+1$ and $\Psi_2(u) = Na ([\max_{2n-2 \leq u \leq 2n} (|f|, |f'|)] + \sqrt{2})$ if $2n-2 \leq u \leq 2n$.

[] denotes the integral part, n is an integer, $N \geq 2$ fixed integer, $a = [\max |\psi_i'|] + 2$; cf. (Ref.2).

84305
S/022/60/013/004/007/007XX
C111/C222

Realizability of the Metric $ds^2 = du^2 + f^2(u)dv^2$ in the Five-Dimensional Euclidean Space

In the E_5 the surface

$$(2) \left\{ \begin{array}{l} x_1 = f(u) \varphi_1(u) \frac{\cos v \psi_1(u)}{\psi_1(u)}, \quad x_2 = f(u) \varphi_1(u) \frac{\sin v \psi_1(u)}{\psi_1(u)} \\ x_3 = f(u) \varphi_2(u) \frac{\cos v \psi_2(u)}{\psi_2(u)}, \quad x_4 = f(u) \varphi_2(u) \frac{\sin v \psi_2(u)}{\psi_2(u)} \\ x_5 = \int_0^u \sqrt{1 - \left\{ \frac{1}{\psi_1(t)} \frac{d}{dt} (f(t)\varphi_1(t)) \right\}^2 - \left\{ \frac{1}{\psi_2(t)} \frac{d}{dt} (f(t)\varphi_2(t)) \right\}^2} dt \end{array} \right.$$

realizes the metric

$$(1) \quad ds^2 = du^2 + f^2(u)dv^2.$$

The surface (2) is extended in the direction of the x_5 -axis and lies in

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S/022/60/013/004/007/007XX
C111/C222

Realizability of the Metric $ds^2 = du^2 + f^2(u)dv^2$ in the Five-Dimensional Euclidean Space

$x_1^2 + x_2^2 + x_3^2 + x_4^2 = 2(Na)^{-1}$. The lines $v=\text{const}$ can be mapped biuniquely onto the x_5 -axis. Some further properties of the surface (2) are given. If especially $f(u) = ch u$, then one obtains the imbedding of the Lobachevskiy-plane into the E_5 .

There are 2 non-Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V.Lomonosov)

SUBMITTED: November 16, 1959

ROZENDORN, E.R.

Properties of asymptotic lines on a surface of slowly varying negative curvature. Dokl,AN SSSR 145 no.3:538-540 J1 '62.

(MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
Predstavлено академиком П.С.Александровым.
(Surfaces of constant curvature)

ROZENDORN, E.R.

Construction of a bounded total surface of non-positive curvature.
Usp. mat. nauk 16 no.2:149-156 Mr-Ap '61. (MIRA 14:5)
(Surfaces) (Geometry, Analytic)

ROZENEL', K., inzh.

New water-tank truck. Pozh.delo 7 no.4:25 Ap '61. (MIRA 14:4)
(Fire engines)

ROZENEL', K., inzh.

PRM-43 fire hose truck. Pozh.delo 6 no.1:29 Ja '60.
(MIRA 13:5)

(Fire departments--Equipment and supplies)

ROZEN'ER, L. A.; TISHCHENKO, K. T.; NEGRESKY, V. Ya.

"Dysentery in Winter," Tezisy Dokladov 9-y Nauchnoy Sessii Kishinevskogo
Gosudarstvennogo Meditsinskogo Instituta, 1952, pp 51, 52.

BUYNITSKIY, V.Kh., doktor geograficheskikh nauk; GAKKEL¹, Ya.Ya.,
doktor geograficheskikh nauk, redaktor; ROZENFARB, I.Ya.,
redaktor.

[Physical features of the Antarctica] Priroda Antarktiki.
Leningrad, 1952. 31 p. (MLRA 7:11)
(Antarctic regions)

NIKOLAYEVA, N.V., kandidat geograficheskikh nauk; SEMENSKIY, B.N., doktor
geograficheskikh nauk, nauchnyy redaktor; ROZENFARB, I.Ya.,
redaktor izdatel'stva; GURDZHIYEVA, A.M., tekhnicheskiy redaktor

[Thailand; a sketch of its economy and geography] Tailand; ekonomiko-
geograficheskii ocherk. Leningrad, Ob-vo po rasprostraneniu polit.
i nauchn. znanii, Leningradskoe otd-nie, 1956. 52 p. (MLRA 10:1)
(Thailand--Geography, Economic)

ROZENFAYN, M.Yu., inzh.

Optimization of the control system for petroleum refineries. Mekh.i
avtom.proizv. 17 no.7:39-41 Jl '63. (MIRA 16:8)
(Petroleum refineries) (Automation)

u.
AID P - 2915

Subject : USSR/Electricity

Card 1/2 Pub. 26 - 12/32

Authors : Motovilov, V. V., Kand. Tech. Sci., Kuybyshev Industrial Institute im. Kuybyshev; B. S. Uspenskiy, Kand. Tech. Sci, Moscow Power Institute im. Molotov; M. Yu. Rozenfayn, Eng., Ukrainian State Institute for Planning of Mining; V. I. Chernyshevich, Eng., Dnepr Power System; S. A. Kudryashov, Eng., Kuybyshev "Elertroproyekt"; L. Ya. Rozenshteyn, Eng., "Promenergoprojekt"; and L. L. Perel'man, Eng., Kiev Construction in the Case Industry

Title : Discussions; On the arrangement of electrical equipment in the main building of small and medium-size electric power plants

Periodical : Elek.sta., 7, 40-44, J1 1955

Abstract : The layout and arrangement of equipment at power plants are discussed in a series of articles by the authors listed above. The question of an efficient distribution with possible savings in material of electrical equipment

ROZANOV, N., inzh.; KOCHESHKOV, V., inzh.; ROZENFEL'D, A., inzh.;
MONFRED, Yu., kand.tekhn.nauk

Prefabricated large-panel apartment houses in the city of Vyksa.
(MIRA 12:6)
Zhil.stroi. no.4/5:5-7 '58.
(Vyksa—Apartment houses)

co

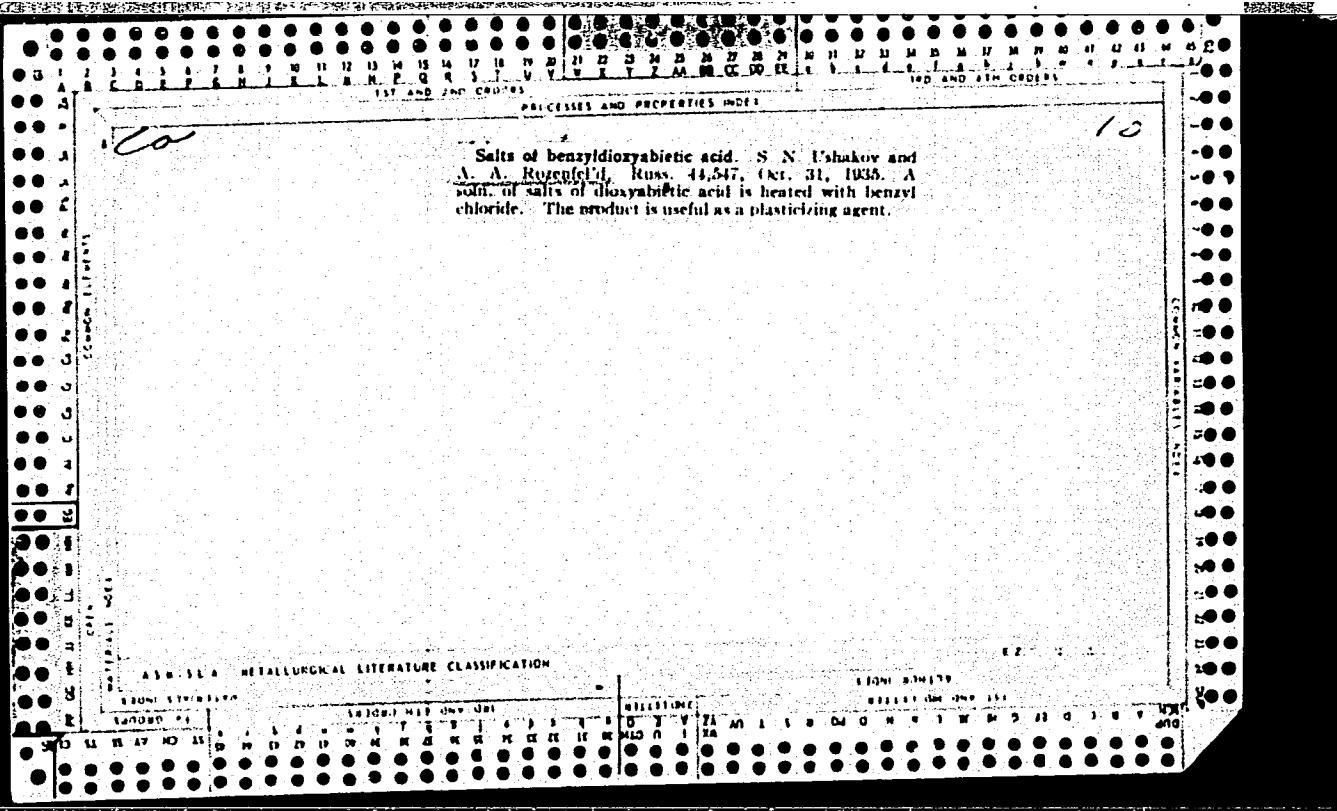
3

STRUCTURE AND PROPERTIES

A new plasticizer, benzyl dihydroxyacetate. S. N. Ushakov and A. A. Rozenfel'd. *Plasticheskie Massy*

1935, No. 3, 4-8.—Ground rosin is treated with Na₂CO₃ soln., and chlorinated. The aq. reaction mixt. is then heated in an autoclave for 6 hrs. at 150°. The resulting Na salt of dihydroxyacetic acid is heated with PhCH₂Cl for 16-18 hrs. to yield 86.7% of benzyl dihydroxyacetate, a viscous oil. It is a good plasticizer with cellulose esters, but is insol. in cellulose ethers. H. M. Leicester

ASBISLA METALLURGICAL LITERATURE CLASSIFICATION



РУССКАЯ ВЕРСИЯ

"Nove pro alkaloid harmin ta zdobuvannya ioho z korennya Peganum Harmala L.,"
Visnyk Prikl. Botaniky, 1930, no. 1, pp. 106-109.

